- AN 2004:473453 CAPLUS
- DN 141:44857
- ED Entered STN: 11 Jun 2004
- TI Photosensitive resin composition comprising halogen-free colorant
- IN Oka, Hidetaka; Adam, Jean-Marie
- PA Ciba Specialty Chemicals Holding Inc., Switz.
- SO PCT Int. Appl., 21 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

PATENT NO.						KIND DATE			APPLICATION NO.						DATE				
PI	WO 2004049070 WO 2004049070				2.2			20040610		WO 2003_FD50849						20031119			
		W:	CN, GE, LK, NZ,	CO, GH, LR, OM,	CR, GM, LS, PG,	CU, HR, LT, PH,	CZ, HU, LU, PL,	AU, DE, ID, LV, PT,	DK, IL, MA, RO,	DM, IN, MD, RU,	DZ, IS, MG, SC,	EC, JP, MK, SD,	EE, KE, MN, SE,	EG, KG, MW, SG,	ES, KP, MX, SK,	FI, KR, MZ, SL,	GB, KZ, NI, SY,	GD, LC, NO, TJ,	
		RW:	BW, BY, ES, TR,	GH, KG, FI, BF,	GM, KZ, FR, BJ,	KE, MD, GB, CF,	LS, RU, GR, CG,	TJ, HU, CI,	MZ, TM, IE, CM,	SD, AT, IT, GA,	SL, BE, LU, GN,	SZ, BG, MC, GQ,	TZ, CH, NL, GW,	UG, CY, PT, ML,	ZM, CZ, RO, MR,	ZW, DE, SE, NE,	AM, DK, SI, SN,	AZ, EE, SK, TD,	T
	2003 1565	2982 789	93		A1 20040			0618 0824		AU 2	2003-2507471 2003-298293 2003-796025				2	0031	31119		
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	ΔT.	TR	BC:	CZ.	EE	HII	SK		
	CN 1717627 CN 100549825					A 20051018 A 20060104 C 20091014					CN 2003-80104325					20031119			
BR 2003016657 CN 1717627 CN 100549825 JP 2006508381 JP 4390707 AT 453877 US 20050282923 MX 2005005682					T B2	2006	20060309		JP 2	? 2004-554539 T 2003-796025				20031119					
									US 2005-535373 MX 2005-5682 IN 2005-CN1406										
PRAI	IN 219755 PRAI EP 2002-406035 WO 2003-EP50849														_	0050	024		
PATENT NO.			CLASS		SS	PATENT FAMILY CLASSIFICATION CODES													
WO 2004049070 IPCI																			

IPCR G03F0007-038 [I,C*]; G03F0007-038 [I,A]; G03F0007-09 [N,C*]; G03F0007-105 [N,A]; M05K0001-02 [N,C*]; M05K0001-00 [N,C*]; M05K0001-00 [N,A]; M05K0003-00 [N,C*]; M05K0003-00 [N,A]; M05K0003-28 [I,C*]; M05K0003-28 [I,A] [ELIA G03F007/038; M05K003/28G2; S03F007:105; T05K001:02D4; T05K003.00N2

CA 2507471 IPCI G03F0007-027 [ICM, 7]

IPCR

G03F0007-038 [I,C*]; G03F0007-038 [I,A]; G03F0007-09 [N,C*]; G03F0007-105 [N,A]; H05K0001-02 [N,C*]; H05K0001-02 [N,A]; H05K0003-00 [N,C*]; H05K0003-00 [N,A]; H05K0003-28 [I,A*]; H05K0003-28 [I,A*]

```
ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
AII 2003298293
                TPCT
                       G03F0007-027 [ICM, 7]
                       G03F0007-038 [I,C*]; G03F0007-038 [I,A]; G03F0007-09
                IPCR
                       IN.C*1: G03F0007-105 [N.A]: H05K0001-02 [N.C*]:
                       H05K0001-02 [N,A]; H05K0003-00 [N,C*]; H05K0003-00
                       [N,A]; H05K0003-28 [I,C*]; H05K0003-28 [I,A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
EP 1565789
                IPCI
                       G03F0007-027 [I.C]; G03F0007-027 [I.A]
                IPCR
                       G03F0007-027 [I.C]; G03F0007-027 [I.A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
BR 2003016657
                TPCT
                       G03F0007-027 [ICM, 7]
                TPCR
                       G03F0007-038 [I,C*]; G03F0007-038 [I,A]; G03F0007-09
                       [N,C*]; G03F0007-105 [N,A]; H05K0001-02 [N,C*];
                       H05K0001-02 [N,A]; H05K0003-00 [N,C*]; H05K0003-00
                       [N,A]; H05K0003-28 [I,C*]; H05K0003-28 [I,A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
CN 1717627
                       G03F0007-027 [I,A]; G03F0007-027 [I,C]; G03F0007-027
                IPCI
                       [I.A]
                IPCR
                       G03F0007-027 [I.Cl; G03F0007-027 [I.Al; G03F0007-038
                       [I,C*]; G03F0007-038 [I,A]; G03F0007-09 [N,C*];
                       G03F0007-105 [N,A]; H05K0001-02 [N,C*]; H05K0001-02
                       [N,A]; H05K0003-00 [N,C*]; H05K0003-00 [N,A];
                       H05K0003-28 [I,C*]; H05K0003-28 [I,A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
JP 2006508381
                IPCI
                       G03F0007-004 [I,A]; G03F0007-40 [I,A]; H05K0003-28
                       [I,A]; G03F0007-027 [N,A]; G03F0007-004 [I,A];
                       G03F0007-40 [I,A]; H05K0003-28 [I,A]; G03F0007-027
                       [N, A]
                IPCR
                       G03F0007-004 [I,A]; G03F0007-004 [I,C]; G03F0007-027
                       [N,C]; G03F0007-027 [N,A]; G03F0007-038 [I,C*];
                       G03F0007-038 [I,A]; G03F0007-09 [N,C*]; G03F0007-105
                       [N,A]; G03F0007-40 [I,C]; G03F0007-40 [I,A];
                       H05K0001-02 [N,C*]; H05K0001-02 [N,A]; H05K0003-00
                       [N,C*]; H05K0003-00 [N,A]; H05K0003-28 [I,C];
                       H05K0003-28 [I,A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
                FTERM 2H025/AB15; 2H025/AC01; 2H025/AD01; 2H025/BC32;
                       2H025/BC42; 2H025/BC74; 2H025/CA01; 2H025/CA28;
                       2H025/CB13; 2H025/CB14; 2H025/CB43; 2H025/CB52;
                       2H025/CC20; 2H025/FA17; 2H025/FA29; 2H096/AA26;
                       2H096/BA05; 2H096/BA20; 2H096/EA02; 2H096/GA08;
                       2H096/HA01; 2H096/JA04; 5E314/AA27; 5E314/AA32;
                       5E314/AA45; 5E314/BB02; 5E314/CC01; 5E314/FF01;
                       5E314/GG08; 5E314/GG11
                       G03F0007-027 [I,C]; G03F0007-027 [I,A]
AT 453877
                IPCI
                IPCR
                       G03F0007-027 [I,C]; G03F0007-027 [I,A]; G03F0007-038
                       [I,C*]; G03F0007-038 [I,A]; G03F0007-09 [N,C*];
                       G03F0007-105 [N,A]; H05K0001-02 [N,C*]; H05K0001-02
                       [N,A]; H05K0003-00 [N,C*]; H05K0003-00 [N,A];
                       H05K0003-28 [I,C*]; H05K0003-28 [I,A]
                ECLA
                       G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4;
                       T05K003:00N2
US 20050282923 TPCT
                       C08K0003-00 [ICM, 7]
                TPCR
                       G03F0007-038 [I,C*]; G03F0007-038 [I,A]; G03F0007-09
                       [N,C*]; G03F0007-105 [N,A]; H05K0001-02 [N,C*];
```

H05K0001-02 [N,A]; H05K0003-00 [N,C*]; H05K0003-00 [N,A]; H05K0003-28 [I,C*]; H05K0003-28 [I,A]

NCL 522/075.000

ECLA G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4; T05K003:00N2

MX 2005005682 IPCI G03F0007-027 [ICM, 7]

ECLA G03F007/038; H05K003/28G2; S03F007:105; T05K001:02D4; T05K003:00N2

IN 2005CN01406 IPCI H05K0001-02 [ICM, 7]

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 141:44857

GI

Ι

- AB The present invention relates to a photosensitive resin composition for solder resists comprising as a component (A) a green colorant of the formula I (rings A, B, C and D are substituted by hydroxy or by moiety; R, R2 = H, C1-4-alkv1; n = 0-3; ring E = unsubstituted or substituted by C1-6-alkyl, C1-6-alkoxy, hydroxy, NHCOR3, NHSO2, R4 or SO2NHR5; R3, R4, R5 = C1-4-alkyl; Ph); as a component (B) an alkali soluble oligomer or polymer reactive or unreactive; as a component (C) a polymerizable monomer; as a component (D) a photoinitiator; as a component (E) an epoxy compound; and also, if desired, as a component (F) further additives. The photosensitive composition can be used as solder resist, etching resist or plating resist in the manufacture of printed circuit boards. The inventive solder resist comprising a single green pigment that maintains qualities required as a green coloring material, such as clear hue, good weatherand heat resistance and that is satisfactory at the same time in the points of environmental pollution, has not been found yet in the present state of the art.
- ST photoresist solder resist printed circuit board compn photosensitive resin

IT Solder resists

(photosensitive resin composition comprising halogen-free colorant)

- IT 5495-84-1, Quantacure ITX 20468-22-8 21707-33-5
- 29570-58-9, DPHA 29696-46-6 71868-10-5, Irgacure 907 155575-69-2, GY 1180 227101-11-3 290821-67-9 667865-45-4 671791-90-5, EA-6340
 - RL: TEM (Technical or engineered material use); USES (Uses)
 (photosensitive resin composition comprising halogen-free

colorant)
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

- RE CITED REFERENCES
- (1) Anon; US 20020136986 A1
- (2) Anon; US 5009982 A CAPLUS (3) Anon; US 5789137 A CAPLUS
- IT 20468-22-8 21707-33-5
- RL: TEM (Technical or engineered material use); USES (Uses) (photosensitive resin composition comprising halogen-free colorant)
- RN 20468-22-8 CAPLUS
- CN Copper, [29H,31H-phthalocyanine-1,8,15,22-tetrolato(2-)-NN29, NN30, KN31, KN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN

21707-33-5 CAPLUS Copper, [29H,31H-phthalocyanine-2,9,16,23-tetrolato(2-)- κ N29, κ N30, κ N31, κ N32]-, (SP-4-1)- (9CI) (CA INDEX CN NAME)